



**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATION

Applicants: Paul Sandefer, et al.

Serial No. : 10/760,643

Filed: January 20, 2004

Attorney I.D. No.: J1044/20011

For: MOLD APPARATUS AND METHOD FOR ONE STEP STEAM CHEST MOLDING

Commissioner for Patents P.O. Box 1450  
Alexandria, VA 22313-1450

**AFFIDAVIT UNDER 37 C.F.R. §1.132**

I, Paul Sandefer, being duly sworn, depose and state:

1. I received a Bachelor of Arts, Chemistry from Wabash College in 1990, a Master of Science in Chemistry from the University of California, Berkeley in 1993, and a Master of Business Administration from the Kellogg Graduate School of Management at Northwestern University in 2001.
2. I am presently employed by JSP Licenses, Inc., the real party in interest of this application, as a General Manager, JSP Mold, LLC; I have been employed in this capacity by JSP since October 1996.
3. I have been involved with the engineering and design of steam chest molding processes for 13 years
4. I have carefully considered the subject matter of U.S. Patent Application Serial Nos. 10/053,055 and 10/760,643 (which is a continuation application of Serial No. 10/053,055); I am a coinventor of the claimed invention in the claims of U.S. Application Serial Number 10/053,055 and U.S. Application Serial No. 10/760,643 and an inventor of the subject matter described and claimed therein.
5. An "inlet" for a steam chest molding apparatus for introducing solid, partially expanded resin is very well known to one skilled in the art of steam chest molding

apparatus. As a person well skilled in the art of steam chest molding, I believe that an inlet that is capable of introducing solid, partially expanded resin (also known as a "fill gun") would not be capable of introducing resins in a liquid form as in, for example, injection molding. The reasons for this are as follows:

- (a) The inlet insertion point into the cavity of a mold has a gap around the tip perimeter that would allow a liquid resin to flow around the gap and into the steam-molding chest. The fill gun is specifically designed for delivery of partially expanded resins and would not operate for liquid resins.
  - (b) The inlet uses compressed air in a venturi mechanism to delivery partially expanded resin beads into the cavity. This filling mechanism would not deliver liquid resin to a cavity.
  - (c) The fill tube for steam chest molding is not heated as would be normally required to prevent the liquid resin from prematurely solidifying in an injection mold resin inlet. As the resin for steam chest molding is already in a solid state, heating the fill tube is not required.
6. Based on my experience, a person skilled in the art of steam chest molding apparatus would interpret an "inlet" that is "of a configuration capable of introducing only solid partially expanded resin" to be of a well known configuration and that a person who is skilled in the art would clearly understand all the requirements of such an inlet to be one of well known configuration for such an inlet for a steam chest molding apparatus. No further detailed description is required to one skilled in the art.

IN WITNESS WHEREOF, I, Paul Sandefer, have hereunto affixed my hand and seal this 12 day of FEBRUARY, 2004.

Paul Sandefer  
Paul Sandefer

State of Illinois

County of Carroll

SS

Before me personally appeared Paul Sandefer and acknowledged the foregoing instrument to be his free act and deed this 12th day of February, 2004



Judith A. Hartman (Seal)  
Notary Public

My commission expires 3-22-07